

OPTICAL RECORDING AND REPRODUCING DEVICE

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Abstract of JP5144025

PURPOSE: To set the phase or the gain characteristic of a servo loop to a prescribed value with a high precision by detecting a single sine wave-based reference signal applied to the servo loop to calculate the gain and the phase of a servo system and calculating an average value to automatically adjust the servo system.

CONSTITUTION: The single sine wave signal is applied to a focus servo loop through a sine wave numerical table 23, a digital signal processor (DSP) 22, a D/A converter 27, etc. The sine wave signal in a prescribed position of the focus servo loop is detected through a focus error signal detector 7, an A/D converter 25, etc., and the gain and the phase of a focusing servo system are calculated by the DSP 22, and an average value is obtained by repeating this operation at intervals of a prescribed time. The gain or the phase characteristic of the focus servo loop are automatically adjusted to a prescribed value based on this average value. The phase or the gain characteristic of a tracking servo loop is set to a prescribed value with a high precision in the same manner.

